



Press Release

Sunny outlook in Saxony

Juwi installs the world's biggest thin-film solar array, setting a milestone for photovoltaic development

Bolanden/Doberschuetz, Germany, 05 April 2007. Juwi solar GmbH based in Bolanden (in the German state Rhineland-Palatinate) has put the final touches to the "Rote Jahne" solar power project in the district town of Delitzsch northeast of Leipzig. Connection to the electricity grid finalized construction of the large-scale photovoltaic (PV) project. With **total output capacity of six megawatts**, it is the fifth biggest PV installation operating in the world. It is also the **world's biggest solar project to use thin-film modules**.

The array will produce around 5.7 million kilowatt-hours of solar electricity every year, enough to power some 1,900 homes. That also displaces the annual emission of 3,750 tons of carbon dioxide (CO₂) into the environment. **The PV power plant is built at a former military airfield**; its module surface area comprises approximately 6.7 hectares – about the same size as 11 soccer fields. **As the general contractor, juwi installed the entire turn-key project.** Investment amounted to around 21 million euros. Ownership shares of the solar park will be sold in cooperation with Sachsen LB over a funds administrator – beginning presumably in mid-2007.

The "Rote Jahne" PV power plant is based on state-of-the-art thin-film technology made by First Solar. *"Thin-film modules have stood the test in many projects, are cheaper than crystalline modules and produce more energy per unit of installed capacity. We can clearly see that the skepticism that reigned two years ago has given way to higher demand. So its part in the overall market will increase distinctly in the future,"* says Lars Falck, managing director of juwi solar GmbH. The array consists of more than 90,000 modules.

Near the "Rote Jahne" solar park juwi recently launched **construction of the world's biggest photovoltaic power plant**. In the Muldentalkreis district the juwi company is installing a 40-megawatt solar park at a former military airbase in the townships of Brandis and Bennewitz. More than 550,000 First Solar thin-film modules will be used in an area comparable to 200 soccer fields. That project is due to be finished by the end of 2009.

Rote Jahne solar project:
Approx. 6,000 kWp

Approx. 67,000 m²
(module surface area)

Annual production:
Approx. 5.7 mil. kWh
(equal to annual power demand of 1,900 households)

CO₂ savings:
Approx. 3,750 tons/a.

Local value added from:

- Lease revenues;
- Tax revenues;
- New jobs.

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Background

...on the renewable energies market

In recent years the proportion of cleanly produced power in the supply has grown constantly. In Germany wind, hydro, solar and bio sources now generate about 12% of the national supply. The federal government's sustainability strategy aims at a 50% share of renewables in the middle of the century. **The European Parliament demands a renewables proportion of 35% in the European supply by 2020.** In Germany the Renewable Energy Sources Act (EEG) is the core instrument for implementing this strategy. It has developed into an elementary building block for securing and creating jobs. The German renewable energies sector employs about 170,000 people.

...on solar energy

Germany is a leader in the use of solar energy, with 300,000 solar power arrays installed, amounting to a capacity of some 2,300 megawatts (status end of 2006). In 2006 PV power production rose 60% to some two billion kilowatt-hours. That makes photovoltaics the fastest growing energy source. **Germany is the Number 1 on the solar market.** In just a few years the stable political framework has made the solar industry an important employer in Germany. **Photovoltaics enterprises employ around 50,000 people.**

Although the proportion of power produced by PV in the German supply is still small, studies by renowned institutes and enterprises (including the Shell corporation) assume that **solar power production will become one of the most important future renewables.** After all, the sun radiates more than 15,000 times more energy to earth than is used. Just 30 to 40 square metres are enough to keep a German household of four people supplied with power for a year.

Solar energy can be deployed flexibly, in a large power station or as the only power source in areas not connected to a grid. Presently two billion people have no grid access. That offers a huge potential to enterprises, including German ones which due to promotion by the Renewable Energy Sources Act (EEG) have taken a leading position in the global solar market. **Germany is well placed to become the world market leader in the manufacture of photovoltaic products (modules, assembly systems, etc.).** Because of the massive potential, a market is developing which will outstrip the automobile industry by far. To maintain the impetus it will be necessary to keep the EEG in place in its present form for another ten years or so.

...on the juwi group

The juwi group ranks among Germany's leading renewable energy companies. In addition to photovoltaics and biomass, wind energy is its strongest mainstay. With about 150 staff juwi is involved in the entire value creation chain. **In the solar sector the enterprise had realised more than 500 PV installations amounting to 30,000 kilowatts and an investment volume of €150 million by the end of 2006.** Outstanding projects of the juwi GmbH include megawatt arrays at several landfill sites, as well as the 6-megawatt air base array "Rote Jahne" in Saxony. In addition, juwi build several rooftop PV systems in the megawatt range, and in summer 2004 the juwi group fitted the largest PV array (240 kilowatts) on a stadium roof in Mainz.

Weitere Informationen:

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At a glance



Solar power park „Rote Jahne“ (district of Delitzsch, Saxony)



Mounting of the structure to carry the modules



juwi solar park "Rote Jahne" (6.0 MW_p)

General overview

| | |
|---------------------------------------|--|
| Location | Solarpark „Rote Jahne“ Alte Flugplatzstraße 20 04838 Doberschütz (district of Delitzsch) |
| Installed power (total) | 6.000 Kilowatts_{peak} |
| Modules area (total) | c. 67.000 m ² (equal to 11 soccer fields) |
| Number of modules / module type | 92.880 moduls / First Solar FS-260, FS-262 und FS-265 |
| Number of inverters / type | 11 x Xantrex GT500E-FS9 |
| Projected energy yield (total) | ca. 5,7 Mio. kilowatt-hours a year (corresponds to the consumption of c. 1,900 households) |
| Pollutants prevented | among others some 3,750 tonnes of carbon dioxide (CO ₂) |
| Investment volume | c. €21 million |
| Funding | Own capital in form of a solar fund Outside capital in form of a loan from the Sachsen LB |
| Modus of operation | Feeding into the grid of envia Netz |
| Start of operation | 2,000 kWp at the end of '06 / 4,000 kWp at end of March '07 |

More information from

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